

## SITE-SPECIFIC SCOPE OF WORK

ARRA Former Bigelow's Grocery

GTAC 5-3-165

5503 McAlevy's Fort Road

Jackson Township, Huntingdon County

### GENERAL INFORMATION:

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Prepared By:	Groundwater & Environmental Services, Inc., Altoona, PA
DEP Project Officer:	John Springer
Facility ID#:	31-00666
Facility Status:	The Site was formerly used as a residence/retail petroleum facility, currently it is a residence. Site features consist of a private residence and former store/station building. The station building is not occupied, but used for storage. In June 2007, three USTs were removed.
Former UST Inventory:	One 1,000-gallon gasoline UST (Tank 001), one 2,000-gallon gasoline UST (Tank 002), one 500-gallon presumably kerosene UST were removed from the Site on June 28, 2007.
Confirmed Reportable Release Date(s):	<b>July 25, 2007:</b> A NOC was reported identifying soil impacts during UST removal activities. Soil impacts were confirmed by the analytical results of the UST closure samples.
Existing Monitoring Wells:	None
Other:	Land area is approximately 0.51 acres; the parking area between the station building and McAlevy's Fort Road is predominantly broken asphalt with gravel in the area of the former UST pit and dispenser island. The remainder of the property is a grass yard that slopes toward Standing Stone Creek. The on-site residence is occupied as a single-family home. A shed and former outhouse are present behind the station building. A topographic map illustrating the site location is included as <b>Figure 1</b> (Site Location Map). <b>Figure 2</b> (Proposed Scope of Work) illustrates pertinent facility features.

### GEOLOGY AND SENSITIVE RECEPTORS:

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General Geology:	Bedrock is presumed to be shallow due to visible outcropping in Standing Stone Creek adjacent to the Site. The geologic formation underlying the Site is the Wills Creek Formation (per PSU Soilmap website), which predominantly consists of calcareous shale and siltstone.
General Hydrogeology:	Unknown. Groundwater is expected to flow north toward Standing Stone Creek.
Sensitive Receptors Identified:	<p>Standing Stone Creek, an unnamed tributary to Standing Stone Creek, station building, on-site private residence with basement, on-site potable well, two nearby off-site potable wells, and neighboring properties presumably with basements.</p> <p>The closest body of water is Standing Stone Creek, which borders the Site. An unnamed tributary to Standing Stone Creek is located approximately 290 feet west of the Site to the north. Groundwater is presumed to flow north.</p> <p>Four wells were identified within a 0.5 mile radius of the Site using the Department of Conservation and Natural Resources, Topographic and Geologic Survey's "Groundwater Information System". The search results indicate three domestic wells and one institutional well within 0.5 mile radius of the Site.</p>

### HISTORICAL SOIL SAMPLING RESULTS:

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COCs:	Confirmatory sample results from the 2007 UST closure indicate that benzene, toluene, and naphthalene are present in soil above the Act 2 U/R MSCs.
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### GROUNDWATER MONITORING RESULTS:

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Approximate depth to groundwater:	Unknown, groundwater was not encountered during UST removal; however, groundwater is expected to be shallow due to the Sites location adjacent to Standing Stone Creek.
Assumed groundwater flow direction:	North toward Standing Stone Creek.
Hydraulic gradient:	Unknown
COCs:	No analytical data is available for this Site. Groundwater was not encountered during UST removal. Unleaded gasoline, leaded gasoline, and kerosene were stored and distributed at the Site.

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### **ADD-ON TASKS TO BE PERFORMED IN ADDITION TO THE BASE SCOPE-OF-WORK:**

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- 1) Soil and groundwater samples will be submitted for the new Pennsylvania short list of leaded gasoline, unleaded gasoline, and kerosene parameters. **Figure 2** illustrates proposed soil boring, monitoring well, and soil gas monitoring point locations. Actual locations will be determined in the field.
- 2) Collect samples from the on-site potable well and two off-site potable wells.
- 3) Install three soil vapor points instead of the proposed two.
- 4) SWLOAD and Penntox modeling will be completed to determine loading to Standing Stone Creek.

### **IDW MANAGEMENT**

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- 1) Soil cuttings will be drummed for off-site disposal.
- 2) Purge and development water will be drummed for offsite disposal. For additional cost savings, well development water can be treated on-site with granular activated carbon in an area removed from the monitor well network, pending PADEP approval.

### **TASKS NOT TO BE PERFORMED IN ACCORDANCE WITH THE BASE SCOPE-OF-WORK:**

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- 1) No geophysical investigation is planned to be performed at this site.
- 2) No private utility mark out is planned to be performed at this site.
- 3) Collection of surface water and sediment samples will not be completed at this site.

### **TENTATIVE PROJECT SCHEDULE**

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Private Utility Mark Out	N/A
GPR Survey	N/A
Site Survey	December 2009
Air Knife	December 2009
Geoprobe	December 2009
Monitor Well Install	December 2009
Monitor Well Development	January 2010
Monitor Well Sampling (1st Round)	January 2010
Soil Gas Sampling (1st Round)	January 2010
Slug Testing	January 2010
Monitor Well Sampling (2nd Round)	February 2010
Soil Gas Sampling (2nd Round)	February 2010
Data Evaluation	February 2010
SCR Submittal	April 2010

### **ATTACHMENTS:**

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Site Photographs  
Figure 1: Site Location Map  
Figure 2: Proposed Scope of Work  
Site Specific Cost Estimate

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### **SITE PHOTOGRAPHS:**

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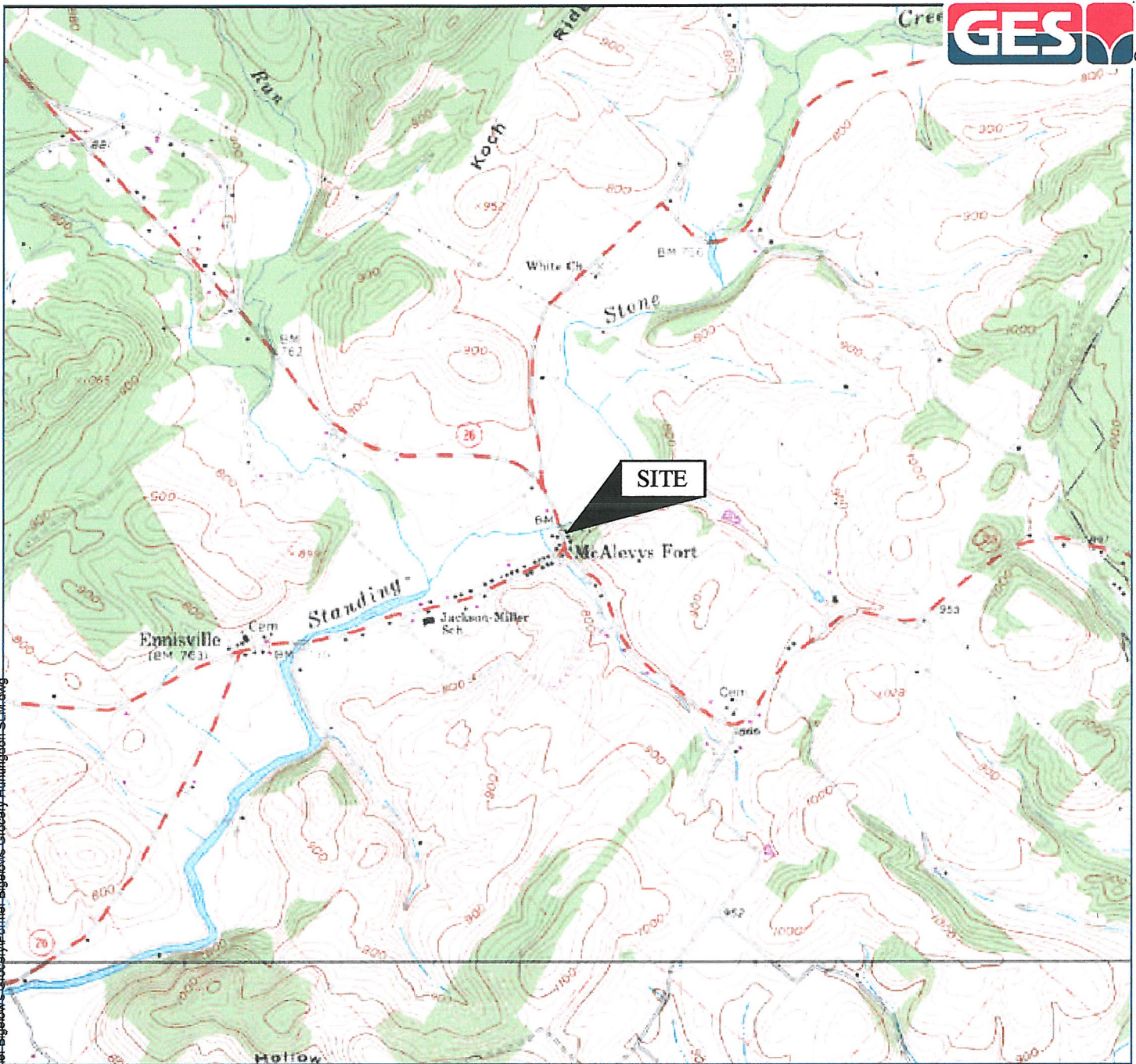


View of station building looking east.



View of Site looking north along McAlevy's Fort Road; former UST excavation in foreground.


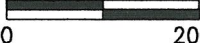




SOURCE: USGS 7.5 MINUTE SERIES  
TOPOGRAPHIC QUADRANGLE  
McALEVYS FORT, PA  
CONTOUR INTERVAL = 20' 1966 (1983)

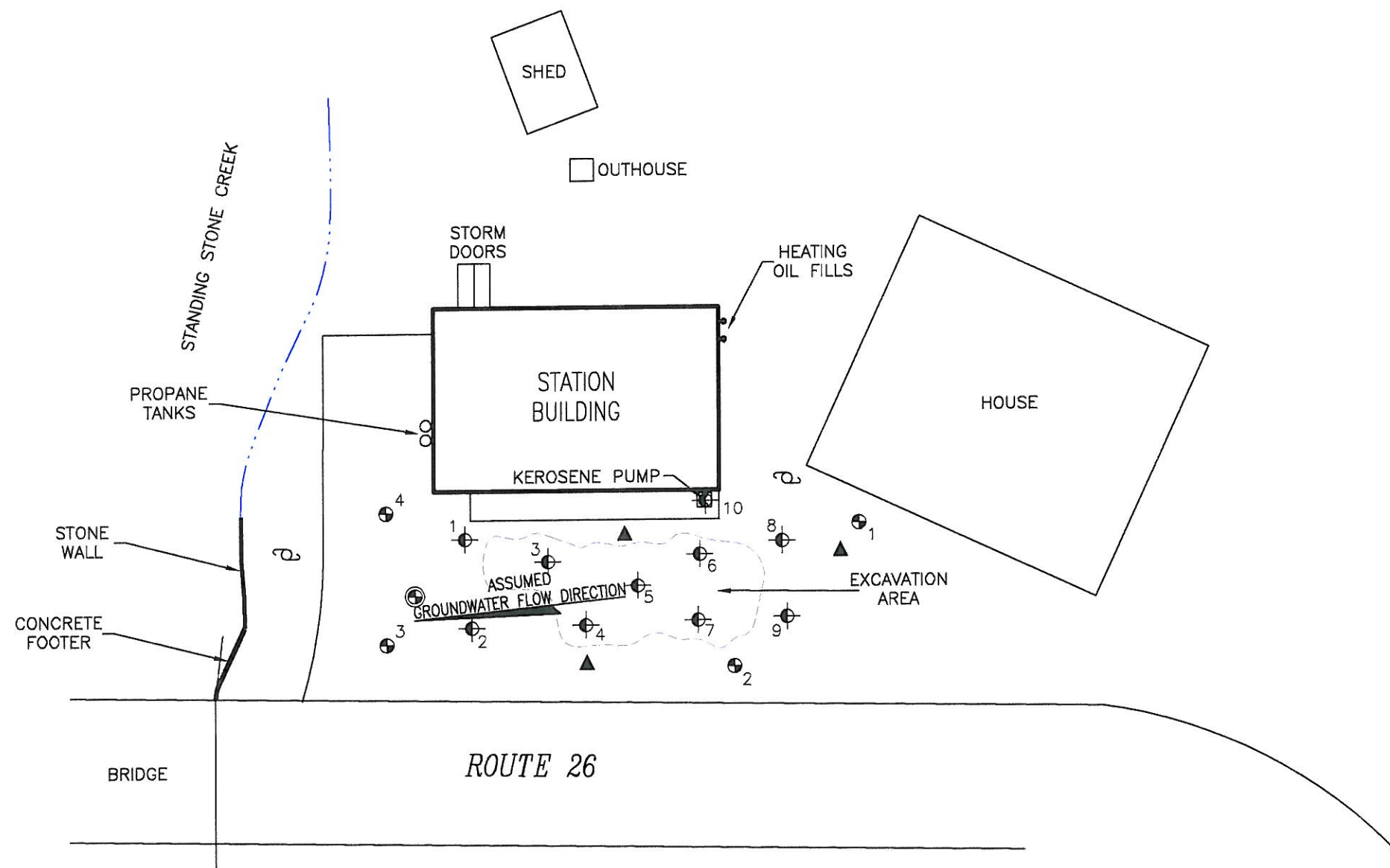


QUADRANGLE LOCATION

DRAFTED BY: TP (EXTON)	<b>SITE LOCATION MAP</b>		
CHECKED BY: <i>MRC</i>	<b>ARRA FORMER BIGELOW'S GROCERY GTAC 5-3-165</b>		
REVIEWED BY: <i>SLM</i>	<b>5505 McALEVY'S FORT ROAD HUNTINGDON, PENNSYLVANIA</b>		
NORTH 	<b>Groundwater &amp; Environmental Services, Inc.</b>		
	6 SHERATON DRIVE, SUITE 2, ALTOONA, PA 16601		
	SCALE IN FEET  0 2000	DATE 10-13-09	FIGURE 1

# LEGEND

- UTILITY POLE
- PROPOSED MONITORING WELL
- PROPOSED DEEP MONITORING WELL
- PROPOSED SOIL GAS POINT
- PROPOSED SOIL BORING



DRAFTED BY: TP (EXTON)	PROPOSED SCOPE OF WORK		
CHECKED BY: <i>[Signature]</i>	ARRA FORMER BIGELOW'S GROCERY GTAC 5-3-165		
REVIEWED BY: <i>[Signature]</i>	5505 McALEVY'S FORT ROAD HUNTINGDON, PENNSYLVANIA		
NORTH 	Groundwater & Environmental Services, Inc. 6 SHERATON DRIVE, SUITE 2, ALTOONA, PA 16601		
	NOT TO SCALE	DATE 10-22-09	FIGURE 2